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APPLICATION NO.	FILING DA	E FIRST NAMED II	NVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/824,466	04/15/200	4 Chun-Hsiun	ng Wu	WUCH3039/EM	6193	
23364	7590 05/	25/2006		EXAMINER		
BACON &	THOMAS, PLI	С		KUHNS, ALLAN R		
625 SLATE FOURTH F				ART UNIT	PAPER NUMBER	
ALEXAND	RIA, VA 22314			1732		
				DATE MAILED: 05/25/2006	6	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/824,466	WU ET AL.					
Office Action Summary	Examiner	Art Unit					
	Allan Kuhns	1732					
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet wit	h the correspondence address	S				
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perions are to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the main earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC 1.136(a). In no event, however, may a re od will apply and will expire SIX (6) MONT ute, cause the application to become ABA	ATION. ply be timely filed THS from the mailing date of this communation ANDONED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 06	March 2006.						
2a) This action is FINAL . 2b) ⊠ Th	nis action is non-final.						
3) Since this application is in condition for allow	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under	r <i>Ex par</i> te <i>Quayle</i> , 1935 C.D.	11, 453 O.G. 213.					
Disposition of Claims							
4)⊠ Claim(s) <u>1-23</u> is/are pending in the application	on.						
4a) Of the above claim(s) is/are withdr	rawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-23</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and	or election requirement.						
Application Papers							
9)☐ The specification is objected to by the Exami	ner.						
10) The drawing(s) filed on is/are: a) ac	ccepted or b) objected to b	y the Examiner.					
Applicant may not request that any objection to the	ne drawing(s) be held in abeyand	e. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the corre	ection is required if the drawing(s	s) is objected to. See 37 CFR 1.1	121(d).				
11)☐ The oath or declaration is objected to by the l	Examiner. Note the attached	Office Action or form PTO-15	52.				
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreig a)⊠ All b)□ Some * c)□ None of:	gn priority under 35 U.S.C. §	119(a)-(d) or (f).					
1. Certified copies of the priority docume	nts have been received.						
2. Certified copies of the priority docume	nts have been received in Ap	plication No					
Copies of the certified copies of the pr	iority documents have been r	eceived in this National Stag	е				
application from the International Bure	• • • • • • • • • • • • • • • • • • • •						
* See the attached detailed Office action for a list	st of the certified copies not r	eceived.					
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) 🔲 Interview Su	ımmary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)	/Mail Date					
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date 	6) Other:	formal Patent Application (PTO-152)					

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1.It is suggested that "under one atmospheric pressure" be changed to "at atmospheric pressure" in the specification and claims in order that the former phrase cannot be misconstrued as indicating operations conducted at below atmospheric pressure.

2.The amendment filed March 6, 2006 is objected to under 35 U.S.C. 132(a) because it introduces new matter into the disclosure. 35 U.S.C. 132(a) states that no amendment shall introduce new matter into the disclosure of the invention. The added material which is not supported by the original disclosure is as follows: the aspect that the thermoplastic elastomer is used as a "substrate", beginning in the "Summary Of The Invention" and continuing throughout the specification. This objection is based on a generally accepted definition of "substrate" as "an underlying layer or substratum". This implies that the "raw material" possesses some layer-like shape before it is acted upon while the disclosure as filed simply states that a "raw material" is acted upon.

Applicant is required to cancel the new matter in the reply to this Office Action.

3.Claims 1-23 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. This rejection is based on the aspect of "using a thermoplastic elastomer as a substrate of the thermoplastic elastomeric composite", as in claims 1 and 12 and other references to "substrate" within the claims. It is not

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apparent that applicants contemplated the use of the raw material in the form of a substrate as set forth above.

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

5.Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hamada et al. (5,609,703) in view of the admitted prior art set forth in claim 1 itself. Hamada et al. disclose or suggest the basic claimed process of forming a foamed sheet (it is submitted that the sheet of Hamada et al. is of sufficient length to be viewed as continuous) from a thermoplastic elastomeric composite including (1) using a thermoplastic elastomer as a substrate of the thermoplastic elastomeric composite, (2) adding additives, foaming agent and crosslinking agent into the substrate to form the thermoplastic elastomeric composite (note the disclosure of the addition of naphthene process oil as an additive at column 5, lines 57-58 and the use of a peroxide crosslinking agent in the embodiment described at column 3, line 25), (3) conveying or placing the sheet to an oven (column 4, lines 41-47), and (4) enabling the sheet to be baked and foamed in the oven. Since Hamada et al. refer to the use of an "air oven" (column 4, line 46) without the mention of pressure, it is submitted that Hamada et al. contemplate the conduct of the process at atmospheric pressure. It would have been obvious to one of ordinary skill in the art to practice kneading and rolling steps, as in

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claim 1, in order to prepare the composite elastomeric material, since the admitted prior art acknowledges that conventional foaming techniques and devices are used.

6.Applicants' arguments filed March 6, 2006 have been fully considered but they are not persuasive. Applicants' arguments are considered to be moot by the examiner based on the revised grounds of rejection introduced in this Office action.

7.Any inquiry concerning this communication or earlier communications from the examiner should be directed to Allan Kuhns whose telephone number is (571) 272-1202. The examiner can normally be reached on Monday to Thursday from 7:00 to 5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christina Johnson, can be reached on (571) 272-1176. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Oll R. Kuhs ALLAN R. KUHNS PRIMARY EXAMINER AU 1732

5-21-06